1st Bill & Part Bill

Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Work Order No.: EE(Project)/YNK Zone/WO/000009/2022-23, Dated : 08.08.2022

Job code: 005-21-000014

Est. cost: 99.00 lakhs

Name Of contractor: Sri Mohan Kumar S R

Quality Control Abstract

Sl No.	Description of Materials	Test	No of Units Tested	No of samples conducted	Test result	Remarks
1	Cement	IS: 12269-1987	Per Batch	Per Batch	Satisfactory	-
2	Fine Aggregates	IS: 383-1970	Per Batch	Per Batch	Satisfactory	-
3	Course Aggregates	As per Morth	Per Batch	Per Batch	Satisfactory	-
4	GSB	to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.	Per Batch	Per Batch	Satisfactory	-
5	Kerb Stones	Core Compressive Strength (IS 516-1959 (Reaffirmed -Sp-24, 1983	Per Batch	Per Batch	Satisfactory	-
6	Steel TMT	IS: 1876:2008, IS 1608:2005,IS1599:1985	Per Batch	Per Batch	Satisfactory	-
7	Slabs 100 and 230 mm	Compressive Strength (IS 516-1959)	Per Batch	Per Batch	Satisfactory	-
8	M20 Concrete	Compressive Strength (IS 516-1959)	48	48	Satisfactory	-
9	M30 Concrete	Compressive Strength (IS 516-1959)	48	48	Satisfactory	-

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MOBILE: 9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/HARO/Cement

Date: 20/08/2022

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	170 Min	Shall Not be less than 30 Min
2.	Final Setting Time	272 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.80 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.10 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	28.62 N/Sqmm	Shall not be less than 27 N /Sq mm

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NO: YEL-P/PMC/HARO/Cement

Date: 30/08/2022

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	166 Min	Shall Not be less than 30 Min
2.	Final Setting Time	276 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.90%	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.35 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.50 N/Sqmm	Shall not be less than 27 N /Sq mm

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NO: YEL-P/PMC/HARO /Fine Agg

Date: 20/08/2022

1. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	17.15%	NA
2.	Silt Content	-	.60%	Not more than 8%
3.	Specific Gravity	-	2.55	--

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NO: YEL-P/PMC/HARO /Fine Agg

Date: 30/08/2022

1. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	18.10%	NA
2.	Silt Content	-	.72%	Not more than 8%
3.	Specific Gravity	-	2.71	--

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NO: YEL-P/PMC/HARO /Fine Agg

Date: 30/08/2022

1. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	17.55%	NA
2.	Silt Content	-	.60%	Not more than 8%
3.	Specific Gravity	-	2.60	--

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NO: YEL-P/PMC/HARO / Course Agg Date: 20/08/2022

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade) mix.

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.15**	95-100
26.50	**---**	-
22.40	**79.25**	60-80
11.20	**53.40**	40-60
4.75	**36.15**	25-40
2.36	**24.60**	15-30
0.600	**19.35**	8-22
0.075	**3.85**	0-5

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Date: 20/08/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.86%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.34%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: YEL-P/PMC/HARO / Course Agg Date: 20/08/2022

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade) mix.

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

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Date: 20/08/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.54%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.65 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: YEL-P/PMC/HARO / GSB

Date: 20/08/2022

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**96.45**	80-100
26.50	**82.60**	55-90
9.50	**56.15**	35-65
4.75	**43.05**	25-50
2.36	**17.25**	10-20
0.85	**8.50**	2-10
0.425	**3.05**	0-5

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 20/08/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.42 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.30**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.45**	----------
5.	Aggregate Impact Value, %	**28.75**	Not more than 40.00 %

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NO: YEL-P/PMC/HARO / GSB

Date: 20/08/2022

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**94.65**	80-100
26.50	**81.35**	55-90
9.50	**52.15**	35-65
4.75	**47.80**	25-50
2.36	**16.25**	10-20
0.85	**7.90**	2-10
0.425	**4.10**	0-5

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Date: 20/08/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.41 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.64**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.74**	----------
5.	Aggregate Impact Value, %	**28.80**	Not more than 40.00 %

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NO: YEL-P/PMC/HARO / GSB

Date: 20/08/2022

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**98.45**	80-100
26.50	**81.30**	55-90
9.50	**54.25**	35-65
4.75	**42.65**	25-50
2.36	**17.35**	10-20
0.85	**8.70**	2-10
0.425	**3.90**	0-5

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Date: 20/08/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.41 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.55**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.74**	----------
5.	Aggregate Impact Value, %	**28.05**	Not more than 40.00 %

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NO: YEL-P/PMC/HARO /KERB

Date: 20/08/2022

Kerb Stone (Core Cutting Method) Test Report

Sub: Testing of concrete Kerb Stones (Core Cutting Method) - Compressive Strength)

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**

Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

Sl No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength - N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	78	.354	2311.4	1.56	.960	26.3	13.39	14.47	13.39	17.36
2.	80	.368	2342.7	1.60	.960	26.3	13.39	14.47	13.39	17.36
3.	82	.382	2372.5	1.64	.960	25.10	12.78	13.81	13.25	16.57

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NO: YEL-P/PMC/HARO /KERB

Date: 20/08/2022

Kerb Stone (Core Cutting Method) Test Report

Sub: Testing of concrete Kerb Stones (Core Cutting Method) - Compressive Strength)

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength - N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	78	.356	2301.4	1.56	.960	25.6	13.39	14.47	13.39	17.01
2.	80	.364	2332.7	1.60	.960	22.95	13.39	14.47	13.39	17.25
3.	82	.380	2352.5	1.64	.960	23.30	12.78	13.81	13.25	17.05

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RESULTS OF PHYSICAL PROPERTIES OF TMT STEEL

SPECIMENS 8,10, AND 12,MM DIA

Date of Testing : 13/08/2022

Grade Of Steel: **Fe 500.**
Technical Ref: IS.1786:2008, IS 1608:2005, IS 1599:1985(Reaffined-2006).

Table

SL No	Grade	Nominal Size of Rebar (Dia)	Mass (KG/meter)	Tensile Strength		
				20% Proof Stress / Yeild Stress (N/mm2)	Tensile Strength (N/mm2)	Elongation Percent on gauge Length
1.	Fe 500	8 mm	.395	546	545	13.51
2.	Fe 500	10mm	.617	590	562	14.73
3.	Fe 500	12mm	.89	576	581	14.61

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/HARO /Raft

Date: 23/08/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Harohalli KEB Layout Raft Concrete	16-08-2022	23-08-2022	8.12	7	378.00	16.80	17.24
2		"	"	8.20	"	385.00	17.11	
3		"	"	8.32	"	365.00	16.22	
4		"	"	8.14	"	390.00	17.33	
5		"	"	8.42	"	410.00	18.22	
6		"	"	8.00	"	400.00	17.78	

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/HARO /Raft

Date: 23/08/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Vaishnavi Layout Raft Concrete.	16-08-2022	23-08-2022	8.21	7	380.00	16.89	17.48
2		"	"	8.32	"	410.00	18.22	
3		"	"	8.24	"	405.00	18.00	
4		"	"	8.41	"	410.00	18.22	
5		"	"	8.00	"	390.00	17.33	
6		"	"	8.32	"	365.00	16.22	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/HARO /Side Walls

Date: 25/08/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Harohalli KEB Layout Side Wall Concrete	18-08-2022	25-08-2022	8.33	7	398.00	17.69	16.77
2		"	"	8.23	"	352.00	15.64	
3		"	"	8.24	"	360.00	16.00	
4		"	"	8.25	"	378.00	16.80	
5		"	"	7.90	"	391.00	17.38	
6		"	"	7.95	"	385.00	17.11	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/HARO /Side Walls

Date: 25/08/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive strength)

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Vaishnavi Layout Side Wall Concrete	18-08-2022	25-08-2022	8.15	7	390.00	17.33	17.63
2		"	"	8.32	"	410.00	18.22	
3		"	"	8.15	"	430.00	19.11	
4		"	"	8.00	"	400.00	17.78	
5		"	"	8.25	"	385.00	17.11	
6		"	"	8.25	"	365.00	16.22	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/HARO / M30 Road

Date: 30/08/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M30**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Harohalli KEB Layout CC Road , M30	23-08-2022	30-08-2022	8.54	7	499.00	22.18	23.64
2		"	"	8.25	"	426.00	18.93	
3		"	"	8.63	"	503.00	22.36	
4		"	"	8.55	"	500.00	22.22	
5		"	"	8.12	"	479.00	21.29	
6		"	"	8.34	"	785.00	34.89	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/HARO / M30 Road

Date: 30/08/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M30**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Harohalli KEB Layout CC Road , M30	23-08-2022	30-08-2022	8.24	7	475.00	21.11	20.70
2		"	"	8.36	"	469.00	20.84	
3		"	"	8.52	"	485.00	21.56	
4		"	"	8.44	"	436.00	19.38	
5		"	"	8.25	"	455.00	20.22	
6		"	"	8.63	"	475.00	21.11	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-P/PMC/HARO / M30 Road

Date: 01/09/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M30**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Vaishnavi Layout and Sai Vihar Layout CC Road, M30	25-08-2022	01-09-2022	8.22	7	488.00	21.69	20.99
2		"	"	8.36	"	443.00	19.69	
3		"	"	8.51	"	475.00	21.11	
4		"	"	8.64	"	488.00	21.69	
5		"	"	8.45	"	468.00	20.80	
6		"	"	8.27	"	472.00	20.98	

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1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 01/09/2022

NO: YEL-P/PMC/HARO / M30 Road

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Improvements to roads and drains at Harohalli in Ward No.02 Chowdeshwari Ward

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri Mohan Kumar S R.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M30**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Vaishnavi Layout and Sai Vihar Layout CC Road, M30	25-08-2022	01-09-2022	8.55	7	400.00	17.78	20.48
2		"	"	4.52	"	456.00	20.27	
3		"	"	8.49	"	474.00	21.07	
4		"	"	8.57	"	485.00	21.56	
5		"	"	8.24	"	469.00	20.84	
6		"	"	8.63	"	481.00	21.38	

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